

DSN Antenna Downtime Status and Forecast



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Antenna Downtime Status and Forecast

The following downtimes were approved for 2008 - 2010

- ❑ SPC-60 downtime for Commercial power installation task.
 - ❑ The request for Commercial Power Installation requirements and dates have changed
 - ❑ 12 hour blocks (0400-1600) have been scheduled for DOYs 09, 91, 97, 98, 104 and 105
- ❑ DSS-14 Grouting for week 25 in 2008 has been removed from the chart
 - ❑ Cassini has requested that the downtime be removed to allow for a critical support to happen
 - ❑ Will look at week 27 to schedule new downtime
- ❑ DSS-55 downtime for Paint Repair beginning in June 2008 for weeks 23 - 28.
 - ❑ The Mid-Range process has started negotiating these weeks and show that weeks 23 – 26 are heavy with Mars request. Weeks 27 and 28 show no project contention and it is suggested that these two weeks be locked down for no antenna movement. Weeks 23 – 26 still need to be negotiated to get daytime hours for painting. This will also require the removal of Depot Level Maintenance.
- ❑ DSS-34 downtime for DSS-34 Azimuth Track Replacement in June Of 2008 for week 25 – 28.
 - ❑ Due to Cassini critical support, the downtime will start 1 day later.
- ❑ DSS-65 downtime for Life Extension Elevation for October, November of 2009 for weeks 45 - 48.
- ❑ DSS-25 downtime for Ka U/L install for April 2010 for 3 weeks is being moved and proposed for weeks 28 - 31. Requesting an additional week and will be proposed at the next RAR.
- ❑ CDSCC 26m antenna, DSS-46 will close as of August 1, 2009.

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Downtime request for 2008

The following proposals for 14 hour complex downtimes are requested by GDSCC.

- ❑ Corrective maintenance “Apollo Tie-Line CB 22 Electrical Maintenance” in April.
 - ❑ This is in the schedule for week 16 DOY 108/0755-2155 has been negotiated in the Mid-Range negotiation meetings.
- ❑ Corrective maintenance “G86/G81 Transfer Switch Electrical Maintenance” in May.
 - ❑ This is in the schedule for week 22 DOY 147/0830-2230 and will be negotiated in the Mid-Range negotiation meetings. This downtime may be moved due to Phoenix EDL.
- ❑ Preventative maintenance “G91 2400V Switchgear Electrical Maintenance” in June.
 - ❑ This is in the schedule for week 24 DOY 164/0830-2230 and will be negotiated in the Mid-Range negotiation meetings.
- ❑ Preventative maintenance “Echo Tie-Line Electrical Maintenance” in September.
 - ❑ This will be proposed for week 38.
- ❑ Preventative maintenance “Apollo Tie-Line Electrical Maintenance” in October.
 - ❑ This will be proposed for week 42.
- ❑ Preventative maintenance “SPC-10 Electrical Maintenance” in November.
 - ❑ This will be proposed for week 46.

Antenna Downtime Status and Forecast

The following proposals for antenna downtimes are requested.

- ❑ CDSCC Annual Antenna Inspections including Annual Servo Testing at DSS-43, -45 and -34 in weeks 3 & 4 of 2008 not to be scheduled concurrently.
 - ❑ Antenna Inspection for DSS-34 is scheduled for DOY 20/2100-0500
 - ❑ Antenna Inspection for DSS-34 is scheduled for DOY 21/1100-2000
 - ❑ Antenna Inspection for DSS-43 is scheduled for DOY 21/2100-0500
 - ❑ Servo Testing for DSS-34 is scheduled for DOY 39/2035-0440
 - ❑ Servo Testing for DSS-43 is scheduled for DOY 41/2100-0500

- ❑ GDSCC Annual Antenna Inspections including Annual Servo Testing at DSS-14, -15, -24, -25, and -26 in weeks 15 & 16 of 2008 not to be scheduled concurrently.
 - ❑ Servo Testing for DSS-24 is scheduled for DOY 63/1600-0000
 - ❑ Servo Testing for DSS-15 is scheduled for DOY 64/1600-0000
 - ❑ Servo Testing for DSS-14 is scheduled for DOY 65/1600-0000
 - ❑ Servo Testing for DSS-25 is scheduled for DOY 66/1600-0000
 - ❑ Servo Testing for DSS-26 is scheduled for DOY 67/1600-0000

- ❑ MDSCC Annual Antenna Inspections including Annual Servo Testing at DSS-63, -65, -54 and -55 in weeks 23 & 24 of 2008 not to be scheduled concurrently.
 - ❑ Servo Testing for DSS-54 is scheduled for DOY 131/1600-0000
 - ❑ Servo Testing for DSS-65 is scheduled for DOY 136/0130-0930
 - ❑ Servo Testing for DSS-63 is scheduled for DOY 137/2040-0440
 - ❑ Servo Testing for DSS-55 is scheduled for DOY 138/0735-1535
 - ❑ Antenna Inspection for DSS-63 is scheduled for DOY 154/0600-1400
 - ❑ Antenna Inspection for DSS-55 is scheduled for DOY 161/0600-1400
 - ❑ Antenna Inspection for DSS-54 is scheduled for DOY 162/0600-1400
 - ❑ Antenna Inspection for DSS-54 is scheduled for DOY 163/0520-1320

- ❑ HEF Transmitter Manifold Installation at DSS-15, -45 and -65 between July, 2008 and June 2009 not to be scheduled concurrently with DSS-15 being scheduled first.

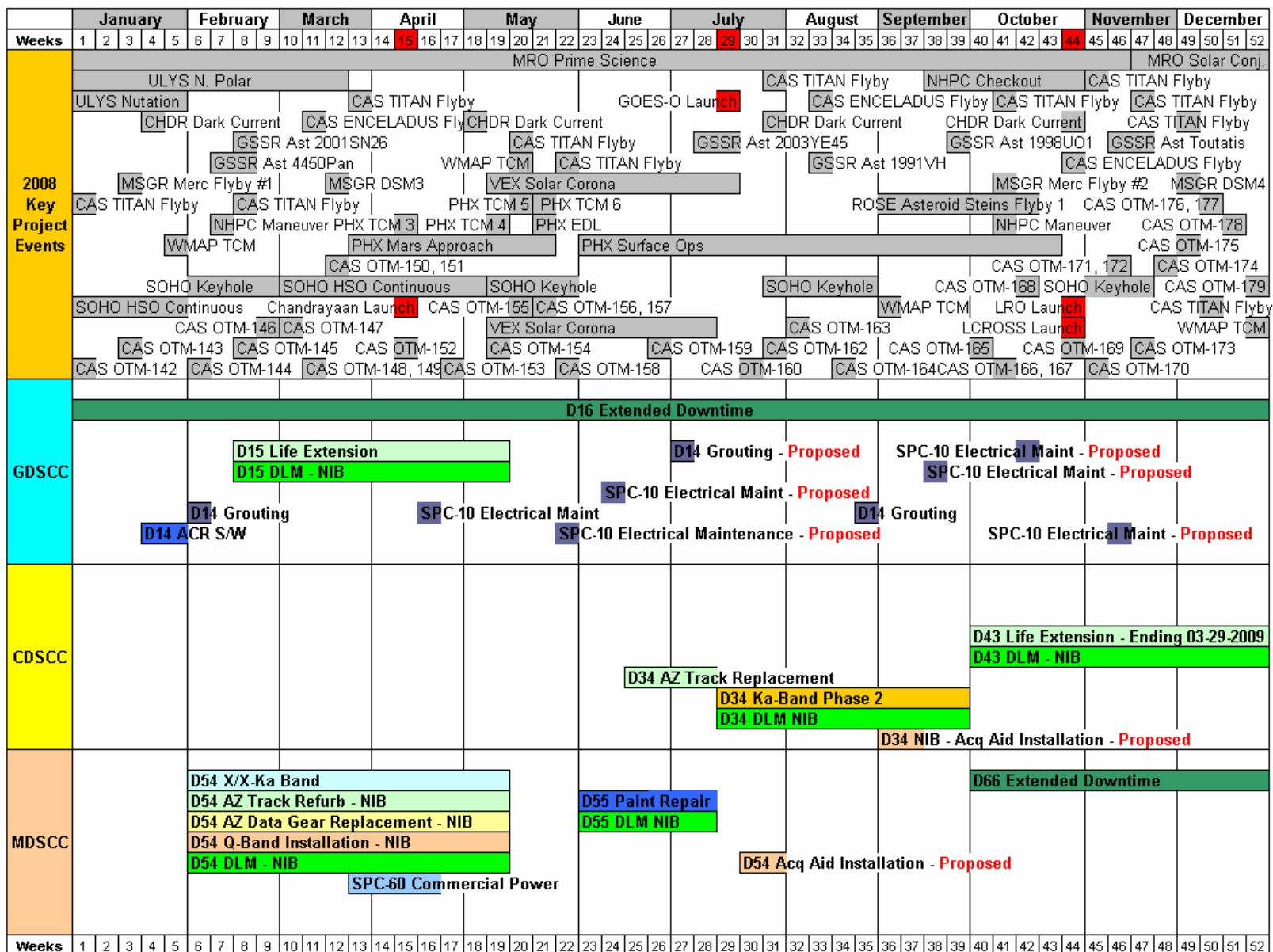
Antenna Downtime Status and Forecast

Changes to 2007 - 2008 Downtime Schedule

All conflicts have been resolved and supports have been completed, scheduled or cancelled.

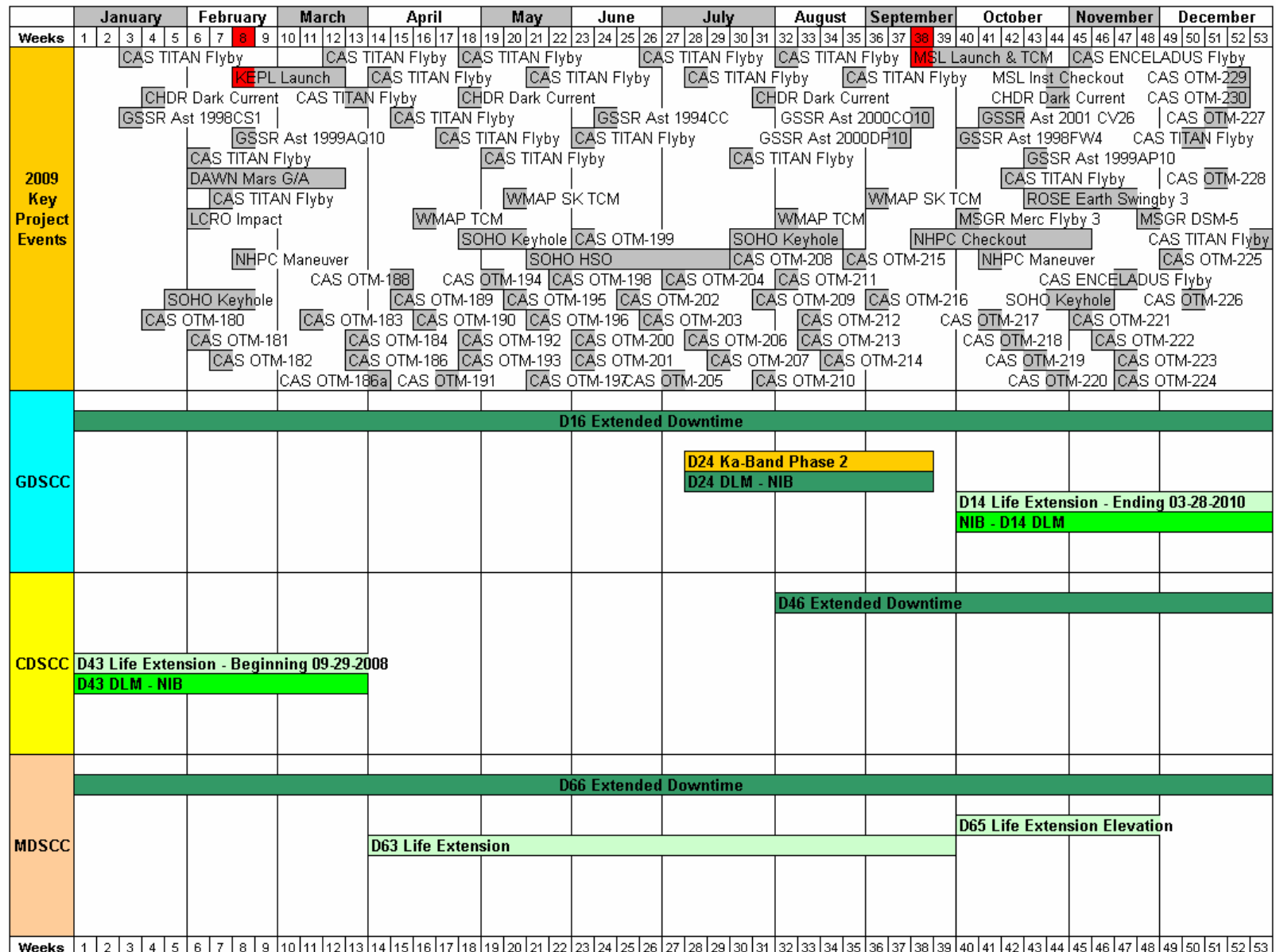
- ❑ 13-hour complex-wide downtime for SPC-10 Electrical Maintenance is scheduled for DOY 341/2115 – 342/1015. This has been rescheduled for DOY 051/1200 – 052/0200 of week 08.
- ❑ Downtime for DSS-43 Rescue Platform Install was completed for DOY 336/2100 – 339/2100.
- ❑ Downtime for Grouting was completed for DOY 340/1600 – DOY 346/0000.
- ❑ ACR S/W install was completed for DOY 25/0000 – DOY 34/0200 in weeks 4 & 5 of 2008.
- ❑ Downtime for DSS-14 Grouting is scheduled for DOY 35/0000 – 41/1045 in week 6 of 2008.

Antenna Downtime Status and Forecast 2008



Revised: February 4, 2008

Antenna Downtime Status and Forecast 2009



Revised: February 4, 2008

Antenna Downtime Status and Forecast 2010

	January				February				March				April				May				June				July				August				September				October				November				December																					
Weeks	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52														
2010 Key Project Events	CAS Tour																																																						GSSR Ast 1998U01								GSSR Mercury			
	GSSR Mars																GSSR Mercury				GSSR Ast 1999 MN																				GSSR Ast 2003 UV11								GSSR Ast 2002 VE68																	
					EGS Global VLBI								CHDR Dark Current								GSSR Mercury				CHDR Dark Current																GSSR Ast 2003 UV11				EGS Global VLBI																					
					EGS EVN J-M5																EGS EVN J-M5																				EGS EVN J-M5								EGS EVN J-M5																	
													KEPL Qtrly. Roll												KEPL Qtrly. Roll												KEPL Qtrly. Roll																													
	MRO Relay																						MRO MSL Support																																											
	M010 THEMIS																																																																	
	MRO X/Ka DDOR										MRO X/Ka DDOR										MRO X/Ka DDOR																																													
																					MSL Approach										MSL Surface Ops																																			
	SOHO Keyhole																SOHO Keyh				MSL Inst Checkout				MSL EDL								NHPC DDOR																NHPC TCM																	
																								NHPC Pluto Rehearsal 1 & Checkout																				NHPC TCM																						
Wind TCM																Wind TCM												ROSE Asteroid LutetiaFlyby																Wind TCM								ROSE DSM-2														
GDSCC																																																																		
	D16 Extended Downtime																																																																	
	D14 Life Extension - Beginning 10-04-2009																																																																	
	NIB - D14 DLM												D25 Ka U/L												D25 Ka U/L - Proposed Move												NIB - D25 DLM																NIB - D25 DLM - Proposed Move													
CDSCC																																																																		
	D46 Extended Downtime																																																																	
MDSCC																																																																		
	D66 Extended Downtime																																																																	
																											D54 Ka-Band Phase 2																																							
Weeks	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52														

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Antenna Downtime Status and Forecast 2011

	January			February				March				April				May				June				July				August				September				October				November				December								
Weeks	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52
2011 Key Project Events	CHDR Dark Current								CAS Tour																																											
	GSSR Mars														GSSR Mercury				GSSR Ast 1999 MN				JUNO Launch												GSSR Ast 2003 UV11																	
							CHDR Dark Current												GSSR Mercury				CHDR Dark Current				GRAIL Launch												GSSR Ast 2002 VE68													
	EGS Global VLBI																		EGS Global VLBI																EGS Global VLBI																	
	EGS EVN J-M5																		EGS EVN J-M5												GSSR Ast 1998U01				EGS EVN J-M5																	
							KEPL Qtrly. Roll												KEPL Qtrly. Roll								KEPL Qtrly. Roll				GSSR Mercury																					
	MRO Relay																MRO MSL Support																																			
	M010 THEMIS																																																			
	MRO X/Ka DDOR						MRO X/Ka DDOR						MRO X/Ka DDOR																																							
																	MSL Approach						MSL Surface Ops																													
	SOHO Keyhole												MSL TCM						MSL TCM																																	
							ROSE DSH Entry						SOHO Keyh						MSL Inst Checkout						MSL EDL						NHPC TCM						NHPC DDOR						NHPC TCM									
	ROSE DSM-2																								Wind TCM						NHPC Checkout						Wind TCM															
Wind TCM												Wind TCM																																								
GDSCC	D16 Extended Downtime																																																			
CDSCC	D46 Extended Downtime																																																			
MDSCC	D66 Extended Downtime																																																			
Weeks	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52

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DSN Resource Implementation Planning Matrix by Subnet

Complex	Station	Subnet	S-Band		X-Band		Ka-Band		Ka Phase 2
			Down	Up	Down	Up	Down	Up	
10	DSS-16	26M	✓	✓	N/A	N/A	N/A	N/A	N/A
40	DSS-46	26M	✓	✓	N/A	N/A	N/A	N/A	N/A
60	DSS-66	26M	✓	✓	N/A	N/A	N/A	N/A	N/A
10	DSS-27	34HSB	✓	✓	N/A	N/A	N/A	N/A	N/A
10	DSS-24	34B1	✓	✓	✓	✓	N/A	N/A	09/21/09
40	DSS-34	34B1	✓	✓	✓	✓	✓	N/A	09/29/08
60	DSS-54	34B1	✓	✓	✓	✓	04/15/08	N/A	09/27/10
10	DSS-25	34B2	N/A	N/A	✓	✓	✓	08/01/10	N/A
10	DSS-26	34B2	N/A	N/A	✓	✓	✓	N/A	N/A
60	DSS-55	34B2	N/A	N/A	✓	✓	✓	N/A	N/A
10	DSS-15	34HEF	✓	N/A	✓	✓	N/A	N/A	N/A
40	DSS-45	34HEF	✓	01/30/08	✓	✓	N/A	N/A	N/A
60	DSS-65	34HEF	✓	01/30/08	✓	✓	N/A	N/A	N/A
10	DSS-14	70M	✓	✓	✓	✓	N/A	N/A	N/A
40	DSS-43	70M	✓	✓	✓	✓	N/A	N/A	N/A
60	DSS-63	70M	✓	✓	✓	✓	N/A	N/A	N/A
N/A = Capability Not Planned xx/xx/xx = Capability Date Recently Changed As of: 01/22/08 ✓ ✓ ✓ = Capability Recently Exists ✓ = Capability Exists									